

WHAT IS CLAIMED IS:

1. A frame structure in a saddle type vehicle comprising:  
a body frame divided into a front assembly having a closed loop structure, an engine support system assembly having a closed loop structure, and a rear suspension support system assembly having a closed loop structure;  
said front assembly and said rear suspension support system assembly are connected to said engine support system assembly to form said body frame.
2. The frame structure in a saddle type vehicle according to claim 1, wherein a steering support portion is provided on said front assembly.
3. The frame structure in a saddle type vehicle according to claim 1, wherein a steering support portion is provided on said engine support system assembly.
4. The frame structure in a saddle type vehicle according to claim 1, wherein said engine support system assembly includes a pair of left and right engine support system closed loop structures connected by an engine support system cross member.
5. The frame structure in a saddle type vehicle according to claim 2, wherein said engine support system assembly includes a pair of left and right engine support system closed loop structures connected by an engine support system cross member.

6. The frame structure in a saddle type vehicle according to claim 3, wherein said engine support system assembly includes a pair of left and right engine support system closed loop structures connected by an engine support system cross member.

7. The frame structure in a saddle type vehicle according to claim 1, wherein said front assembly has a steering support system closed loop structure in the front, and a connecting member connected to said engine support system assembly extends rearwardly from said steering support system closed loop structure.

8. The frame structure in a saddle type vehicle according to claim 2, wherein said front assembly has a steering support system closed loop structure in the front, and a connecting member connected to said engine support system assembly extends rearwardly from said steering support system closed loop structure.

9. The frame structure in a saddle type vehicle according to claim 3, wherein said front assembly has a steering support system closed loop structure in the front, and a connecting member connected to said engine support system assembly extends rearwardly from said steering support system closed loop structure.

10. The frame structure in a saddle type vehicle according to claim 4, wherein said front assembly has a steering support system closed loop structure in the front, and a connecting member connected to said engine support system assembly extends rearwardly from said steering support system closed loop structure.

11. The frame structure in a saddle type vehicle according to claim 1, wherein said rear suspension support system assembly includes a pair of left and right triangular rear suspension support system closed loop structures connected by a rear suspension support system cross member and a shock absorber of a rear suspension is supported on a bracket provided at a corner of said rear suspension support system closed loop structure.

12. The frame structure in a saddle type vehicle according to claim 2, wherein said rear suspension support system assembly includes a pair of left and right triangular rear suspension support system closed loop structures connected by a rear suspension support system cross member and a shock absorber of a rear suspension is supported on a bracket provided at a corner of said rear suspension support system closed loop structure.

13. The frame structure in a saddle type vehicle according to claim 3, wherein said rear suspension support system assembly includes a pair of left and right triangular rear suspension support system closed loop structures connected by a rear suspension support system cross member and a shock absorber of a rear suspension is supported on a bracket provided at a corner of said rear suspension support system closed loop structure.

14. The frame structure in a saddle type vehicle according to claim 4, wherein said rear suspension support system assembly includes a pair of left and right

triangular rear suspension support system closed loop structures connected by a rear suspension support system cross member and a shock absorber of a rear suspension is supported on a bracket provided at a corner of said rear suspension support system closed loop structure.

15. The frame structure in a saddle type vehicle according to claim 7, wherein said rear suspension support system assembly includes a pair of left and right triangular rear suspension support system closed loop structures connected by a rear suspension support system cross member and a shock absorber of a rear suspension is supported on a bracket provided at a corner of said rear suspension support system closed loop structure.

16. The frame structure in a saddle type vehicle according to claim 6, wherein when said rear suspension is fully compressed, said shock absorber is positioned at a position in which an angle of said corner is divided approximately into two equal parts.

17. The frame structure in a saddle type vehicle according to claim 1, wherein a front suspension support portion is provided on said front assembly.

18. The frame structure in a saddle type vehicle according to claim 2, wherein a front suspension support portion is provided on said front assembly.

19. The frame structure in a saddle type vehicle according to claim 3, wherein a front suspension support portion is provided on said front assembly.

20. A method of manufacturing a frame in a saddle type vehicle, the method comprising the following steps:

separately forming a front assembly having a closed loop structure, an engine support system assembly having a closed loop structure, and a rear suspension support system assembly having a closed loop structure; and

connecting said front assembly and said rear suspension support system assembly to said engine support system assembly to form a body frame.